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Case Study: Concurrent Engineering. Concurrent Engineering has been used by many corporations since 1980 as a tactic to plan a new product in integrative manner. It is a system of designing and developing products, in which the dissimilar stages operate simultaneously, rather than consecutively. Traditional product development system which has a very little synchronization between diverse functions and absence of product life cycle perspectives is replaced using Concurrent Engineering.

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Abstract. All the elements of successful concurrent engineering existed more than eighty years ago. They can be seen in the introduction of the Model T, which was developed on a teamwork basis, Henry Ford himself sketching his ideas on a blackboard, and Joseph Galamb and Spider Huff developing them into engineering specifications, while Charles Sorensen checked the manufacturing feasibility [1].

Concurrent engineering case studies: Lessons from Ford ...

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A Case Study in Concurrent Engineering 2.0

To overcome this gap, this paper presents results from a case study we conducted at the Chinese office of a worldwide operating design consultancy firm. This paper presents the sources of conflicts that practitioners of this design

office encountered during concurrent design activities on a number of historical and ongoing projects. The paper also presents a number of strategies to effectively detect and manage conflicts on concurrent engineering projects that we derived together with ...

Conflict Management in Concurrent Engineering: A Case Study

Concurrent Engineering assessment Reference [23] present an extensive studies of several tools that can be used to assess CE implementation in an organisation which are as follows: x RACE (Readiness Assessment for Concurrent Engineering) x PMO (The Process Model of Organisation) x PMO-RACE (A Combination of PMO & RACE) x PRODEVO (A Swedish Model Based on RACE) x CMM (Capability Maturity Model) x SPICE (Standardized Process Improvement for Construction Enterprises) x Project Management ...

Concurrent Engineering Implementation Assessment: A Case ...

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Toyota Motor Corporation is an industry leader in product development lead time while using fewer engineers than its U.S. competitors. It has also shown remarkable consistency in market share growth and profit per vehicle, which led to cash reserves of \$21 billion, exceeding those of the "Big Three" automakers combined.¹ The Toyota Production System (TPS), dubbed "lean manufacturing ...

Toyota's Principles of Set-Based Concurrent Engineering

Abstract. This paper extends the previous work in which two QFD models, a "2-storied quality chart" and a "Parallel flow quality chart," were proposed as tools for concurrent engineering product development driven by a matrix organization. This paper compares these two models with two real cases from a major international project of a Japanese automobile company in the 1980s.

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Concurrent engineering has been implemented in a number of companies, organizations, and universities, most notably in the aerospace industry. Beginning in the early 1990s, CE was also adapted for use in the information and content automation field, providing a basis for organization and management of projects outside the physical product development sector for which it was originally designed. Organizations such as the European Space Agency's Concurrent Design Facility make use of ...

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